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JUN 13 2014

Div. of Oil, Gas & Mining

M1047/0022  
M1047/0032  
April

June 11, 2014

Tar Sands Holdings II, LLC  
6445 S. Wasatch Boulevard, Ste 105  
Salt Lake City, Utah 84121

Via e-mail: ddragoo@swlaw.com  
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Subject: Tar Sands Holdings II, LLC Remediation Plan for Various Containers of Hydrocarbons and Contaminated Soils at the Asphalt Ridge 2 Mine Site.

As per request from Tar Sands Holdings II (TSHII), Stantec has prepared the following remediation plan for the Asphalt Ridge 2 (AR2) mine site. This plan consists of two tasks; the first task includes inventorying the type and amount of different materials that are being stored onsite. The second task includes removal of the containers and various liquids, and removal of the contaminated soils where the containers were stored.

### Remediation

The following items located in a fenced area at the AR2 site have been identified for remediation.

- Various containers (e.g., 55-gallon drums, smaller containers, and estimated 250-gallon open top metal containers) (see photos 1-7).
  - Some of these containers are in poor condition and some are leaking.
- Stained soils in the immediate area.

### Remediation Scope of Work

The following tasks have been identified as the project scope of work.

#### Task 1

The following sub-tasks are included in Task 1. A Stantec representative will provide services to the contractor to document conditions on-site.

- Complete a site inspection, inventory containers, and open containers for visual inspection and identification of the contents. All containers will be closed after opening. The contractor must be prepared for containerizing leaking containers and/or containers that develop leaks from handling.
- Identify the container contents, hazcat and/or sample for laboratory testing.
- Complete Chlor-D-Tect 1000 (chlorinated hydrocarbon) field sampling and testing on containers with liquid hydrocarbons. Collect individual container samples. Composite samples from 5-containers and complete the field test. If composite results are positive, field test the individual container's samples for chlorinated hydrocarbons.
- Keep field notes with information gathered.
- Take pictures of oily soils (visibly stained soil areas), document which containers are in the immediate area and estimate the stained soil surface area.

Information gathered in the field will include the following:

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- Container tracking number.
- Container condition (e.g., will material have to be recontainerized for management).
- Container size and estimate volume.
- Type of container (e.g. drum, pail, other, metal and/or plastic).
- Description of contents from inspection, chlorinated hydrocarbon results and/or hazcat.
- If sampled for laboratory testing, identify recommended laboratory test methods (e.g., flash point).

Stantec will complete a report with the field observations and develop a spreadsheet with the container information gathered in the field with the contractor. This information will be used for Task 2.

#### Task 2

The general remediation plan, which may change depending on results from Task 1, includes the following sub-tasks:

- Container/material packaging
- Remediation of contaminated soil
- Transportation and disposal of contaminated material

A Stantec representative will provide services to the contractor to oversee removal of material from the AR2 mine site. Transportation and disposal will be dependent upon the type of material. All material will be disposed of at a disposal site appropriate for the material (i.e., a Resource Conservation and Recovery Act (RCRA)- and Toxic Substances Control Act (TSCA)-permitted disposal facility or other landfill if appropriate).

The timing of completion of remediation is dependent upon the findings during Task 1 and the contractor's availability. Task 1 is estimated to take approximately three days. If any substances require laboratory testing, the initiation of Task 2 will inevitably be delayed until the results are known. Once Task 2 can be started, it is estimated to take approximately five days for complete removal/remediation of all containers, material, and contaminated soil.

Upon completion of remediation tasks outlined above a Stantec representative will conduct a final site inspection and prepare a report of completion, which will be sent to TSHII.

Thank you,

Alysén Swenson  
JBR, now Stantec